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|                                                                                                                                            |  |                                     |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------|----------------------|
| <b>UTILITY<br/>PATENT APPLICATION<br/>TRANSMITTAL</b><br><small>(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))</small> |  | Attorney Docket No. 12480-000029/US |                      |
|                                                                                                                                            |  | First Inventor                      | Kenji TOYOSAWA       |
|                                                                                                                                            |  | Title                               | SEMICONDUCTOR DEVICE |

031088 U.S. PTO  
10727489



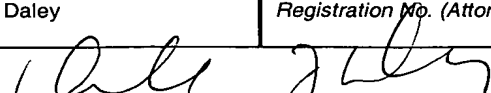
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>APPLICATION ELEMENTS</b><br><small>See MPEP chapter 600 concerning utility patent application contents.</small><br><br>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17)<br><small>(Submit an original and a duplicate for fee processing)</small><br>2. <input type="checkbox"/> Applicant claims small entity status.<br>See 37 CFR 1.27.<br>3. <input checked="" type="checkbox"/> Specification [Total Pages <span style="border: 1px solid black; padding: 0 5px;">65</span> ]<br><small>(preferred arrangement set forth below)</small> <ul style="list-style-type: none"><li>- Descriptive title of the Invention</li><li>- Cross References to Related Applications</li><li>- Statement Regarding Fed sponsored R &amp; D</li><li>- Reference to sequence listing, a table, or a computer program listing appendix</li><li>- Background of the Invention</li><li>- Brief Summary of the Invention</li><li>- Brief Description of the Drawings (if filed)</li><li>- Detailed Description</li><li>- Claim(s)</li><li>- Abstract of the Disclosure</li></ul> 4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <span style="border: 1px solid black; padding: 0 5px;">11</span> ]<br>5. Oath or Declaration [Total Pages <span style="border: 1px solid black; padding: 0 5px;">3</span> ] <ul style="list-style-type: none"><li>a. <input checked="" type="checkbox"/> Newly executed (original or copy)</li><li>b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d))<br/><small>(for a continuation/divisional with Box 18 completed)</small></li><li>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b><br/><small>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</small></li></ul> 6. <input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76 | <b>ADDRESS TO:</b><br>Commissioner for Patents<br>Box Patent Application<br>P.O. Box 1450<br>Alexandria, VA 22313-1450<br><br>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)<br>8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) <ul style="list-style-type: none"><li>a. <input type="checkbox"/> Computer Readable Form (CRF)</li><li>b. Specification Sequence Listing on:<ul style="list-style-type: none"><li>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</li><li>ii. <input type="checkbox"/> paper</li></ul></li><li>c. <input type="checkbox"/> Statements verifying identity of above copies</li></ul> <b>ACCOMPANYING APPLICATIONS PARTS</b><br>9. <input checked="" type="checkbox"/> Assignment Papers (cover sheet & document(s))<br>10. <input type="checkbox"/> 37 C.F.R. §3.73(b) Statement <input type="checkbox"/> Power of Attorney<br><small>(when there is an assignee)</small><br>11. <input type="checkbox"/> English Translation Document (if applicable)<br>12. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations<br>13. <input type="checkbox"/> Preliminary Amendment<br>14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503)<br><small>(Should be specifically itemized)</small><br>15. <input checked="" type="checkbox"/> Certified Copy of Priority Document(s)<br><small>(if foreign priority is claimed)</small><br>16. <input type="checkbox"/> Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.<br>17. <input type="checkbox"/> Other: _____ |
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18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

|                                               |                                     |                                                     |                                        |
|-----------------------------------------------|-------------------------------------|-----------------------------------------------------|----------------------------------------|
| <input type="checkbox"/> Continuation         | <input type="checkbox"/> Divisional | <input type="checkbox"/> Continuation-in-part (CIP) | of prior application No: _____ / _____ |
| Prior application information: Examiner _____ |                                     |                                                     | Group / Art Unit: _____                |

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

|                                                                       |  |                                                              |  |                                                          |  |
|-----------------------------------------------------------------------|--|--------------------------------------------------------------|--|----------------------------------------------------------|--|
| <b>17. CORRESPONDENCE ADDRESS</b>                                     |  |                                                              |  |                                                          |  |
| <input checked="" type="checkbox"/> Customer Number or Bar Code Label |  | 30593                                                        |  | or <input type="checkbox"/> Correspondence address below |  |
|                                                                       |  | 30593<br>(Insert Customer No. or Attach bar code label here) |  |                                                          |  |
| Name: Harness, Dickey & Pierce, P.L.C.                                |  |                                                              |  |                                                          |  |
| Address: P.O. Box 8910                                                |  |                                                              |  |                                                          |  |
| City: Reston                                                          |  | State: VA                                                    |  | Zip Code: 20195                                          |  |
| Country: United States of America                                     |  | Telephone: 703-668-8000                                      |  | Fax: 703-668-8200                                        |  |

|                   |                                                                                      |                                   |                        |
|-------------------|--------------------------------------------------------------------------------------|-----------------------------------|------------------------|
| Name (Print/Type) | Donald J. Daley                                                                      | Registration No. (Attorney/Agent) | 34,313                 |
| Signature         |  |                                   | Date: December 5, 2003 |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

120503

13281 U.S. PTO

PTO/SB/17 (10-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**FEE TRANSMITTAL  
for FY 2003**

Patent fees are subject to annual revision.

**Complete if Known**

|                     |                  |
|---------------------|------------------|
| Application Number  | NEW              |
| Filing Date         | December 5, 2003 |
| Inventor(s)         | Kenji TOYOSAWA   |
| Examiner Name       | UNASSIGNED       |
| Group / Art Unit    | UNASSIGNED       |
| Attorney Docket No. | 12480-000029/US  |

**TOTAL AMOUNT OF PAYMENT** (\$) 810.00**METHOD OF PAYMENT (check one)**

1. ☐ The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:

Deposit  
Account  
Number

08-0750

Deposit  
Account  
Name

Harness, Dickey &amp; Pierce, P.L.C.

- ☒ Charge Any Additional Fee Required  
Under 37 CFR 1.16 and 1.17  
☐ Applicant claims small entity status.  
See 37 CFR 1.27

2. ☒ Payment Enclosed:

- ☒ Check ☐ Credit card ☐ Money  
Order ☐ Other

**FEE CALCULATION****1. BASIC FILING FEE**

| Large<br>Fee<br>Code | Entity<br>Fee<br>(\$) | Small<br>Fee<br>Code | Entity<br>Fee<br>(\$) | Fee Description        | Fee Paid |
|----------------------|-----------------------|----------------------|-----------------------|------------------------|----------|
| 1001                 | 770                   | 2001                 | 385                   | Utility filing fee     | 770      |
| 1002                 | 340                   | 2002                 | 170                   | Design filing fee      |          |
| 1003                 | 530                   | 2003                 | 265                   | Plant filing fee       |          |
| 1004                 | 770                   | 2004                 | 385                   | Reissue filing fee     |          |
| 1005                 | 160                   | 2005                 | 80                    | Provisional filing fee |          |

**SUBTOTAL (1)**

(\$ 770)

**2. EXTRA CLAIM FEES**

|                       |    |        | Extra<br>Claims |   | Fee from<br>below |   | Fee<br>Paid |
|-----------------------|----|--------|-----------------|---|-------------------|---|-------------|
| Total Claims          | 15 | -20 ** | = 0             | X | 18                | = | 0           |
| Independent<br>Claims | 1  | -3 **  | = 0             | X | 86                | = | 0           |
| Multiple<br>Dependent | 0  |        |                 | X | 0                 | = | 0           |

| Large<br>Fee<br>Code | Entity<br>Fee<br>(\$) | Small<br>Fee<br>Code | Entity<br>Fee<br>(\$) | Fee Description                                            |
|----------------------|-----------------------|----------------------|-----------------------|------------------------------------------------------------|
| 1202                 | 18                    | 2202                 | 9                     | Claims in excess of 20                                     |
| 1201                 | 86                    | 2201                 | 43                    | Independent claims in excess of 3                          |
| 1203                 | 290                   | 2203                 | 145                   | Multiple dependent claim, if not paid                      |
| 1204                 | 86                    | 2204                 | 43                    | ** Reissue independent claims over original patent         |
| 1205                 | 18                    | 2205                 | 9                     | ** Reissue claims in excess of 20 and over original patent |

**SUBTOTAL (2)**

(\$0)

\*\*or number previously paid, if greater; For Reissues, see above

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

| Large<br>Entity<br>Fee<br>Code | Fee<br>(\$) | Small<br>Entity<br>Fee<br>Code | Fee<br>(\$) | Fee Description                                                            | Fee Paid |
|--------------------------------|-------------|--------------------------------|-------------|----------------------------------------------------------------------------|----------|
| 1051                           | 130         | 2051                           | 65          | Surcharge - late filing fee or oath                                        |          |
| 1052                           | 50          | 2052                           | 25          | Surcharge - late provisional filing fee or cover sheet.                    |          |
| 1053                           | 1053        | 1053                           | 130         | Non-English specification                                                  |          |
| 1812                           | 2,520       | 1812                           | 2,520       | For filing a request for reexamination                                     |          |
| 1804                           | 920*        | 1804                           | 920*        | Requesting publication of SIR prior to Examiner action                     |          |
| 1805                           | 1,840*      | 1805                           | 1,840*      | Requesting publication of SIR after Examiner action                        |          |
| 1251                           | 110         | 2251                           | 55          | Extension for reply within first month                                     |          |
| 1252                           | 420         | 2252                           | 210         | Extension for reply within second month                                    |          |
| 1253                           | 950         | 2253                           | 475         | Extension for reply within third month                                     |          |
| 1254                           | 1,480       | 2254                           | 740         | Extension for reply within fourth month                                    |          |
| 1255                           | 2,010       | 2255                           | 1,005       | Extension for reply within fifth month                                     |          |
| 1401                           | 330         | 2401                           | 165         | Notice of Appeal                                                           |          |
| 1402                           | 330         | 2402                           | 165         | Filing a brief in support of an appeal                                     |          |
| 1403                           | 290         | 2403                           | 145         | Request for oral hearing                                                   |          |
| 1451                           | 1,510       | 1451                           | 1,510       | Petition to institute a public use proceeding                              |          |
| 1452                           | 110         | 2452                           | 55          | Petition to revive - unavoidable                                           |          |
| 1453                           | 1,330       | 2453                           | 665         | Petition to revive - unintentional                                         |          |
| 1501                           | 1,330       | 2501                           | 665         | Utility issue fee (or reissue)                                             |          |
| 1502                           | 480         | 2502                           | 240         | Design issue fee                                                           |          |
| 1503                           | 640         | 2503                           | 320         | Plant issue fee                                                            |          |
| 1460                           | 130         | 1460                           | 130         | Petitions to the Commissioner                                              |          |
| 1807                           | 50          | 1807                           | 50          | Processing fee under 37 CFR 1.17 (q)                                       |          |
| 1806                           | 180         | 1806                           | 180         | Submission of Information Disclosure Stmt                                  |          |
| 8021                           | 40          | 8021                           | 40          | Recording each patent assignment per property (times number of properties) | 40       |
| 1809                           | 770         | 2809                           | 385         | Filing a submission after final rejection (37 CFR § 1.129(a))              |          |
| 1810                           | 770         | 2810                           | 385         | For each additional invention to be examined (37 CFR § 1.129(b))           |          |
| 1801                           | 770         | 2801                           | 385         | Request for Continued Examination (RCE)                                    |          |
| 1802                           | 900         | 1802                           | 900         | Request for expedited examination of a design application                  |          |

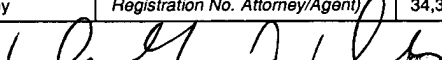
Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

**SUBTOTAL (3)**

(\$ 40)

**SUBMITTED BY****Complete (if applicable)**

|                   |                                                                                     |                                 |        |           |                  |
|-------------------|-------------------------------------------------------------------------------------|---------------------------------|--------|-----------|------------------|
| Name (Print/Type) | Donald J. Daley                                                                     | Registration No. Attorney/Agent | 34,313 | Telephone | 703-668-8000     |
| Signature         |  |                                 |        | Date      | December 5, 2003 |

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

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